

In re Patent Application of
FLICK
Serial No. 10/626,969
Filed: July 25, 2003

In the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Claims 1-40 (Canceled).

41. (Previously presented) A vehicle security system for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, and connected to a plurality of vehicle devices, the vehicle security system comprising:

a two-zone shock sensor to interface with the vehicle data communications bus extending throughout the vehicle and carrying data and address information for generating a pre-warning signal based upon a sensed low threat level condition and an alarm signal based upon a sensed high threat level condition higher than the sensed low threat level condition;

an audible alarm indicator; and

a vehicle security controller cooperating with said two-zone shock sensor, interfacing with the vehicle data communications bus extending throughout the vehicle and carrying data and address information, and being connected to said audible alarm indicator independently of the data communications bus, and for causing said audible alarm indicator to generate an audible pre-warning indication based upon the pre-warning signal for the sensed low threat level

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condition or for causing said audible alarm indicator to generate an audible alarm indication based upon the alarm signal for the sensed high threat level condition so that the audible alarm indication has a greater volume than the audible pre-warning indication and so that the audible alarm indication has a greater duration than the audible pre-warning indication.

42. (Previously presented) The vehicle security system of Claim 41, wherein said audible alarm indicator comprises at least one of a siren and a horn.

43. (Previously presented) The vehicle security system of Claim 41, further comprising a signal enabler for enabling said vehicle security controller to operate using a desired set of signals for a corresponding desired vehicle from a plurality of sets of signals for different vehicles for permitting said vehicle security controller to communicate with said two-zone shock sensor via the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

44. (Previously presented) The vehicle security system of Claim 43, wherein said signal enabler comprises a bus learning device for learning the desired set of signals based upon signals on the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

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45. (Previously presented) The vehicle security system of Claim 43, wherein said signal enabler comprises a download device for downloading the desired set of signals.

46. (Previously presented) A vehicle security system for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, and connected to a plurality of vehicle devices, the vehicle security system comprising:

- a two-zone shock sensor for generating a pre-warning signal based upon a sensed low threat level condition and an alarm signal based upon a sensed high threat level condition higher than the sensed low threat level condition;

- an audible alarm indicator to interface with the vehicle data communications bus extending throughout the vehicle and carrying data and address information; and

- a vehicle security controller cooperating with said two-zone shock sensor independently of the data communications bus and to interface with the vehicle data communications bus extending throughout the vehicle and carrying data and address information for causing said audible alarm indicator to generate an audible pre-warning indication based upon the pre-warning signal for the sensed low threat level condition or for causing said audible alarm indicator to generate an audible alarm indication based upon the alarm signal for the sensed high threat level condition so that the audible alarm indication has a greater volume than the audible pre-warning indication and so that the audible alarm indication has a

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greater duration than the audible pre-warning indication.

47. (Previously presented) The vehicle security system of Claim 46, wherein said audible alarm indicator comprises at least one of a siren and a horn.

48. (Previously presented) The vehicle security system of Claim 46, further comprising a signal enabler for enabling said vehicle security controller to operate using a desired set of signals for a corresponding desired vehicle from a plurality of sets of signals for different vehicles for permitting said vehicle security controller to communicate with said alarm indicator via the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

49. (Previously presented) The vehicle security system of Claim 48, wherein said signal enabler comprises a bus learning device for learning the desired set of signals based upon signals on the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

50. (Previously presented) The vehicle security system of Claim 48, wherein said signal enabler comprises a download device for downloading the desired set of signals.

51. (Previously presented) A vehicle security method for a vehicle of a type comprising a vehicle data

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communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, the method comprising:

interfacing a two-zone shock sensor with the vehicle data communications bus extending throughout the vehicle and carrying data and address information for generating a pre-warning signal based upon a sensed low threat level condition and an alarm signal based depending upon a sensed high threat level condition higher than the sensed low threat level condition;

providing an audible alarm indicator; and

interfacing a vehicle security controller with the vehicle data communications bus extending throughout the vehicle and carrying data and address information to cooperate with the two-zone shock sensor for causing the audible alarm indicator, the audible alarm indicator being connected to the vehicle security controller independently of the data communications bus, to generate an audible pre-warning indication based upon the pre-warning signal for the sensed low threat level condition or for causing the audible alarm indicator to generate an audible alarm indication based upon the alarm signal for the sensed high threat level condition so that the audible alarm indication has a greater volume than the audible pre-warning indication and so that the audible alarm indication has a greater duration than the audible pre-warning indication.

52. (Previously Presented) The method of Claim 51, wherein the audible alarm indicator comprises at least one of

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a siren and a horn.

53. (Previously presented) A vehicle security method for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, the method comprising:

providing a two-zone shock sensor for generating a pre-warning signal based upon a sensed low threat level condition and an alarm signal based upon a sensed high threat level condition higher than the sensed low threat level condition;

interfacing an audible alarm indicator with the vehicle data communications bus extending throughout the vehicle and carrying data and address information; and

interfacing a vehicle security controller with the vehicle data communications bus extending throughout the vehicle and carrying data and address information to cooperate with the two-zone shock sensor independently of the data communications bus for causing the audible alarm indicator to generate an audible pre-warning indication based upon the pre-warning signal for the sensed low threat level condition or for causing the audible alarm indicator to generate an audible alarm indication based upon the alarm signal for the sensed high threat level condition so that the audible alarm indication has a greater volume than the audible pre-warning indication and so that the audible alarm indication has a greater duration than the audible pre-warning indication.

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54. (Previously presented) The method of Claim 53, wherein the audible alarm indicator comprises at least one of a siren and a horn.

55. (Previously presented) A vehicle security system for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle and connected to a plurality of vehicle devices, the data communications bus carrying data and address information thereover, the vehicle security system comprising:

- at least one vehicle security sensor interfacing with the vehicle data communications bus extending throughout the vehicle and carrying data and address information for generating a pre-warning signal or an alarm signal depending upon a sensed threat level;

- an alarm indicator;

- a vehicle security controller interfacing with the vehicle data communications bus extending throughout the vehicle and carrying data and address information for causing said alarm indicator to generate a pre-warning indication based upon the pre-warning signal, or for causing said alarm indicator to generate an alarm indication based upon the alarm signal; and

- a signal enabler for enabling said vehicle security controller to operate using a desired set of signals for a corresponding desired vehicle from a plurality of sets of signals for different vehicles for permitting said vehicle security controller to communicate with said at least one vehicle security sensor and said alarm indicator via the

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vehicle data communications bus extending throughout the vehicle and carrying data and address information.

56. (Previously presented) The vehicle security system of Claim 55 wherein said at least one vehicle security sensor comprises a multi-stage sensor.

57. (Previously presented) The vehicle security system of Claim 55 wherein said at least one vehicle security sensor comprises a pre-warn sensor for providing the pre-warning signal and an alarm sensor for providing the alarm signal.

58. (Previously presented) The vehicle security system of Claim 55 wherein the alarm indication has a greater duration than the pre-warning indication.

59. (Previously presented) The vehicle security system of Claim 55 wherein said alarm indicator comprises an audible alarm indicator, and wherein the alarm indication has a greater volume than the pre-warning indication.

60. (Previously presented) The vehicle security system of Claim 55 wherein said at least one vehicle security sensor comprises at least one motion sensor.

61. (Previously presented) The vehicle security system of Claim 55 wherein said at least one vehicle security sensor comprises a two-zone shock sensor.

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62. (Previously presented) The vehicle security system of Claim 55 wherein said alarm indicator comprises at least one of a siren, a horn, and a vehicle light.

63. (Previously presented) The vehicle security system of Claim 55 wherein said signal enabler comprises a bus learning device for learning the desired set of signals based upon signals on the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

64. (Previously presented) The vehicle security system of Claim 55 wherein said signal enabler comprises a download device for downloading the desired set of signals.

65. (Previously presented) A vehicle security system for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, and connected to a plurality of vehicle devices, the vehicle security system comprising:

at least one vehicle security sensor for generating a pre-warning signal or an alarm signal depending upon a sensed threat level;

an alarm indicator interfacing with the vehicle data communications bus extending throughout the vehicle and carrying data and address information;

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a vehicle security controller connected to said at least one vehicle security sensor and interfacing with the vehicle data communications bus extending throughout the vehicle and carrying data and address information for causing said alarm indicator to generate a pre-warning indication based upon the pre-warning signal, or for causing said alarm indicator to generate an alarm indication based upon the alarm signal; and

a signal enabler for enabling said vehicle security controller to operate using a desired set of signals for a corresponding desired vehicle from a plurality of sets of signals for different vehicles for permitting said vehicle security controller to communicate with said at least one vehicle security sensor and said alarm indicator via the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

66. (Previously presented) The vehicle security system of Claim 65 wherein said at least one vehicle security sensor comprises a multi-stage sensor.

67. (Previously presented) The vehicle security system of Claim 65 wherein said at least one vehicle security sensor comprises a pre-warn sensor for providing the pre-warning signal and an alarm sensor for providing the alarm signal.

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68. (Previously presented) The vehicle security system of Claim 65 wherein the alarm indication has a greater duration than the pre-warning indication.

69. (Previously presented) The vehicle security system of Claim 65 wherein said alarm indicator comprises an audible alarm indicator, and wherein the alarm indication has a greater volume than the pre-warning indication.

70. (Previously presented) The vehicle security system of Claim 65 wherein said at least one vehicle security sensor comprises at least one motion sensor.

71. (Previously presented) The vehicle security system of Claim 65 wherein said at least one vehicle security sensor comprises a two-zone shock sensor.

72. (Previously presented) The vehicle security system of Claim 65 wherein said alarm indicator comprises at least one of a siren, a horn, and a vehicle light.

73. (Withdrawn) A vehicle security method for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, and an alarm indicator, the method comprising:

interfacing at least one vehicle security sensor with the vehicle data communications bus extending throughout the vehicle and carrying data and address information, the at

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least one vehicle security sensor for generating a pre-warning signal or an alarm signal depending upon a sensed threat level; and

causing the alarm indicator to generate a pre-warning indication based upon the pre-warning signal, or causing the alarm indicator to generate an alarm indication based upon the alarm signal by at least using a signal enabler operating with a desired set of signals for a corresponding desired vehicle from a plurality of sets of signals for different vehicles for permitting the at least one vehicle security sensor to communicate with the alarm indicator via the vehicle data communications bus extending throughout the vehicle and carrying data and address information.

74. (Withdrawn) The method of Claim 73 wherein the at least one vehicle security sensor comprises a housing and a multi-stage sensor carried by the housing.

75. (Withdrawn) The method of Claim 73 wherein the at least one vehicle security sensor comprises a pre-warn sensor for providing the pre-warning signal and an alarm sensor for providing the alarm signal.

76. (Withdrawn) The method of Claim 73 wherein the alarm indication has a greater duration than the pre-warning indication.

77. (Withdrawn) The method of Claim 73 wherein the alarm indicator comprises an audible alarm indicator, and

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wherein the alarm indication has a greater volume than the pre-warning indication.

78. (Withdrawn) The method of Claim 73 wherein the at least one vehicle security sensor comprises at least one motion sensor.

79. (Withdrawn) The method of Claim 73 wherein the at least motion sensor comprises a two-zone shock sensor.

80. (Withdrawn) A vehicle security method for a vehicle of a type comprising a vehicle data communications bus extending throughout the vehicle, the data communications bus carrying data and address information thereover, the method comprising:

interfacing an alarm indicator with the vehicle data communications bus extending throughout the vehicle and carrying data and address information; and

causing the alarm indicator to generate a pre-warning indication based upon a pre-warning signal on the vehicle data communications bus extending throughout the vehicle and carrying data and address information, and causing the alarm indicator to generate an alarm indication based upon an alarm signal on the vehicle data communications bus extending throughout the vehicle and carrying data and address information by at least using a signal enabler operating with a desired set of signals for a corresponding desired vehicle from a plurality of sets of signals for different vehicles for permitting the alarm indicator to communicate via the vehicle

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data communications bus extending throughout the vehicle and carrying data and address information.

81. (Withdrawn) The method of Claim 80 wherein the alarm indication has a greater duration than the pre-warning indication.

82. (Withdrawn) The method of Claim 80 wherein the alarm indicator comprises an audible alarm indicator, and wherein the alarm indication has a greater volume than the pre-warning indication.

83. (Withdrawn) The method of Claim 80 wherein the alarm indicator comprises at least one of a siren and a horn.